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We <u>Dream Big Institution</u> have started a New Series "Score-Up PDF". This will be like a one stop solution for High Standard Practice Questions on all Topics. Here we have given the **Quantitative Aptitude "Score-Up PDF" – Data Interpretation,** candidates can download it now. Kindly share this to all your friends.

#### **TOP 50 Data Interpretation Questions For (Clerk Mains)**

**SET: 1 Direction: Study the data carefully and answer the questions given beside:** The table shows the percentage of marks obtained by five students in five different subjects and some data is missing.

	Maths	English	Hindi	Commerce	Art
	(100)	(150)	(80)	(160)	(125)
Chintu	-	40%	-	65%	56%
Sheena	-	68%	85%	-	76%
Umesh	62%	-	90%	70%	-
Aryansh	88%	70%	-	-	84%
Himani	78%	-	75%	85%	-

Q. If the overall percentage of marks obtained by Umesh in all the subjects is 80% and the marks obtained by Umesh in English is 26 marks more than the marks obtained by Umesh in Art, find the percentage of marks obtained by Umesh in Art.

A) 72%

B) 75%

C) 90%

D) 88%

E) None of these

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#### Answer: Correct Option: D

Total maximum marks = 100 + 150 + 80 + 160 + 125 = 615 marks

Overall marks obtained by Umesh =  $615 \times 80\% = 492$ 

Let Marked obtained in Art = x, English = x + 26

According to the question,

 $100 \times 62\% + x + 26 + 80 \times 90\% + 160 \times 70\% + x = 492$ 

62 + x + 26 + 72 + 112 + x = 492

2x + 272 = 492

2x = 492 - 272

2x = 220

x = 110

Marks obtained by Umesh in Art = 110

% = 110/ 125 × 100 = 88%

Hence, option D is correct.

Q. What is the ratio of the marks obtained by Chintu in English and Commerce together to the marks obtained by Aryansh in English and Art together.

A) 75 : 109

B) 21 : 31

C) 41 : 65

D) 82 : 105

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E) None of these

#### Answer: Correct Option: D

Marks obtained by Chintu in English =  $150 \times 40\% = 60$ 

Marks obtained by Chintu in Commerce =  $160 \times 65\% = 104$ 

Marks obtained by Aryansh in English = 150 × 70% = 105

Marks obtained by Aryansh in Art =  $125 \times 84\% = 105$ 

Ratio = 60 + 104 : 105 + 105

= 164 : 210

= 82 : 105

Hence, option D is correct.

Q. If the total marks obtained by Sheena in English, Hindi and Commerce is 290 and the total marks obtained by Himani in Math, Hindi and Art is 218, find the difference between the marks obtained by Sheena in Commerce and the marks obtained by Himani in Art.

A) 60 marks

- B) 40 marks
- C) 75 marks
- D) 20 marks
- E) None of these

#### Answer: Correct Option: B

Marks obtained by Sheena in English =  $150 \times 68\% = 102$ 

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Marks obtained by Sheena in Hindi =  $80 \times 85\% = 68$ 

Marks obtained by Sheena in Commerce = 290 - 102 - 68 = 120

Marks obtained by Himani in Math =  $100 \times 78\% = 78$ 

Marks obtained by Himani in Hindi =  $80 \times 75\% = 60$ 

Marks obtained by Himani in Art = 218 - 78 - 60 = 80

Difference = 120 – 80 = 40 marks

Hence, option B is correct.

Q. If the marks obtained by Umesh in English is 90 and the marks obtained by Himani in English is 114, find the percentage of marks obtained by all students in English.

- A) 72.8%
- B) 78.8%
- C) 62.8%
- D) 69.8%
- E) 81.8%

#### Answer: Correct Option: C

Marks obtained by Chintu in English =  $150 \times 40\%$  = 60

Marks obtained by Sheena in English =  $150 \times 68\% = 102$ 

Marks obtained by Umesh in English = 90

Marks obtained by Aryansh in English =  $150 \times 70\% = 105$ 

Marks obtained by Himani in English = 114

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Total marks = 60 + 102 + 90 + 105 + 114 = 471

Total maximum marks =  $150 \times 5 = 750$ 

 $\% = 471/750 \times 100 = 62.8\%$ 

Hence, option C is correct.

Q. Marks obtained by Aryansh in Math and Art together is approximately how much percentage more than the marks obtained by Himani in Commerce?

- a) 50%
- b) 34%
- c) 46%
- d) 38%
- e) 42%

#### Answer: Correct Option: E

Marks obtained by Aryansh in Math = 100 × 88% = 88 Marks obtained by Aryansh in Art = 125 × 84% = 105 Marks obtained by Himani in Commerce = 160 × 85% = 136

 $=\frac{57}{136} \times 100 = 41.9\% \approx 42\%$ 

Hence, option E is correct.

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## **SET 2:** Directions : Study the following table chart carefully and answer the questions given beside.

It's a description about four friends Ram, Arun, Tahir, and Karan. They all go for running in parks near their society. Total three table charts show related information.

Name of the parks and the length of tracks on which they run. All tracks are circular.

Name of the	Length of
park	tracks(meter)
Sector-1 (S-1)	400
Sector-2 (S-2)	300
Sector-3 (S-3)	500
Sector-4 (S-4)	250
Sector-5 (S-5)	600

Number of trips they make and time to make all correspondingly mentioned trips.

#### Table-2

	Mond	lay	Tueso	day 💋	Thursday I		Frida	Friday	
	Trips	time <mark>(m</mark> in)	Trips	time(min)	Trips	<mark>time(m</mark> in)	)Trips	time(min)	
Ram	6	10	4	12	8	16	4	10	
Arun	3	10	4	18	6	15	5	20	
Tahir	5	10	5	15	7	21	4	16	
Karan	2	8	6	12	5	20	3	12	

**Note:** On a particular day, no two person will go to same park until the question says so. Speed of any of them could be same or different any day in any park. Don't assume same as previous day until question says so.

Weekly plan for who will go to which park on a particular day.

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#### Table-1



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<u>Table-3</u>

	Monday	Tuesday	Thursday	Friday
Ram		S-3	S-4	S-4
Arun		S-5	S-2	S-3
Tahir		S-1	S-3	S-5
Karan		S-2	S-5	S-1

Q. The options show name of all the person along with the park in which he ran. Out of the given options, which combination would be such that all the four person ran with same speed in their respective park on Monday?(Answer to this question will fill blank space in table-3.)

- a) Ram S-1, Arun– S-3, Tahir– S-5, and Karan– S-4
- b) Ram S-2, Arun– S-1, Tahir– S-3, and Karan– S-4
- c) Ram S-4, Arun– S-3, Tahir– S-5, and Karan– S-2
- d) Ram S-4, Arun– S-3, Tahir– S-2, and Karan– S-5
- e) None of these

Answer: Correct Option: D

From the common explanation, we have We verify each option one by one as follows. In option D, Ram run in S-4. It has a length of 250 meters. Number of trips he makes = 6, so the distance he covers is =  $6 \times 250 = 1500$  meters. Time he took 10min,

so his speed is 1500 = 150 m/min 10

Similarly, for Arun run in S-3. It has a length of 500 meters. Number of trips he makes = 3, so the distance he covers is =  $3 \times 500 = 1500$  meters. Time he took 10min,

so his speed is 1500 = 150 m/min 10

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Similarly, for Tahir run in S-2. It has a length of 300 meters. Number of trips he makes = 5, so the distance he covers is =  $5 \times 300 = 1500$  meters. Time he took 10min,

so his speed is 1500 = 150 m/min 10

Karan run in S-5. It has a length of 600 meters. Number of trips he makes = 2, so the distance he covers is =  $2 \times 600 = 1200$  meters. Time he took 8min,

so his speed is = 150 m/min = 150 m/min

In the same way when we calculate for other option we see they don't give same speed for all the persons.

Therefore, right combination is

Ram – S-4, Arun– S-3, Tahir– S-2, and Karan– S-5 Hence, option D is correct.

#### **Common explanation :**

We calculate all the distance they ran on a particular day according to given plan. For the rest we will calculate from

distance = the number of trips x length of the track on which the particular person ran. For example, Ram on Tuesday ran in park S-3 and made 4 trips. Length of S-3 is 500 meters so,

distance = 4 × 500 = 2000meters.

Similarly, other values can be calculated easily. Here the table gives all those values: All distance in meters –

	Monday	Tuesday	Thursday	Friday
Ram	1500	2000	2000	1000

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Arun	1500	2400	1800	2500
Tahir	1500	2000	3500	2400
Karan	1200	1800	3000	1200

Q. Consider they plan a game for a week. Nothing will be changed in this game except for assigning a sequence of running. In this game, all are connected through electronic device, and when the first person stops in his park after making the planned trips for that day, the second person starts on knowing it through the device in whichever park he is, and when the second stops after making all the planned trips for that day, the third starts, and so on. Assume time consumed in passing the information is negligible. If we divide the total distance all the four persons ran on a day with total time they took to finish this game on that day we get a number, call it 'common speed'. On which day the common speed is lowest?

- a) Tuesday
- b) Monday
- c) Friday
- d) Thursday
- e) B and C both

#### Answer: Correct Option: C

From the common explanation, we have Consider Monday, the distance in this game they will run is sum of all the individual distances they ran. So we have from common explanation: On Monday, distance = 1500 + 1500 + 1500 + 1200 = 5700 meter from table-2, Total time = 10 + 10 + 10 + 8 = 38 min

the total distance all the four persons ran

common speed =\_

total time to finish this game

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For example, Ram on Tuesday ran in park S-3 and made 4 trips. Length of S-3 is 500 meters so, distance =  $4 \times 500 = 2000$  meters.

Similarly, other values can be calculated easily. Here the table gives all those values:

All distance in meters –

	Monday	Tuesday	Thursday	Friday
Ram	1500	2000	2000	1000
Arun	1500	2400	1800	2500
Tahir	1500	2000	3500	2400
Karan	1200	1800	3000	1200

Q. They all decide to run on same track on Saturday. This is a new track and its length is 1000meters. Ram and Tahir run with speeds with what they ran on Tuesday while Arun and Karan run with speed with what they ran on thursday. They all start together from same line and stop after 5 minutes. The point where they stop is noted and the distance from this point to the other end of the track is measured for all the four persons. Average of these measurement would be?

- a) 287.5 meter
- b) 275.5 meter
- c) 257.5 meter
- d) 387.5 meter
- e) None of these

#### Answer: Correct Option: A

From common explanation, we see distance Ram and Tahir ran on tuesday is same 2000 meter for both. The time they took to cover this distance we see from table-2, Ram took 12 min while Tahir took 15 min.

Thus speeds of Ram and Tahir on tuesday is 2000/12 meter/min and 2000/15 meter/min respectively.

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## **Boost Your Exam Preparations With Dream Big Institution** Bank | Insurance | SSC | Railway | Government Exams Visit - www.DreamBigInstitution.com They run for 5 minutes new track on sunday, so the distance they cover in this time would be 5 × 2000 5000 $Ram = \underline{meter} = \underline{meter}$ 5 × 2000 2000 Tahir = $_{15}$ meter = $_{3}$ meter Similarly, for Arun and Karan, we have distance covered on thursday is 1800 meter and 3000 meter respectively. The time taken for this we see from table-2. Distance cover on new track in 5 minutes for both of them on sunday would be 5 × 1800 Arun =\_\_\_\_\_= 600 meter 15 5 × 3000 Karan = 20 = 750 meter For Ram, the distance between where he stopped and the finish line would be 5000 1000 = 1000 - \_\_\_\_= 2000 1000 Similarly, for Tahir = $1000 - \frac{3}{3} = \frac{3}{3}$

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for Arun = 1000 – 600 = 400 for Karan = 1000 – 750 = 250 Sum of all these measurements

```
= \frac{1000}{6} + \frac{1000}{3} + 400 + 250 = 1150
```

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Average = \frac{1150}{4} = 287.5 meter
```

Hence, option A is correct.

Q. They plan running on Wednesday. Ram and Karan exchanged their parks, and Tahir and Arun exchanged with each other. All of them ran for same time as they ran on Tuesday, and number of trips were also same as that on Tuesday. Means, if Ram make n trips on Tuesday in T minutes then he again made n trips on Wednesday in T minutes. Which of the options give the best arrangement with respect to speed on Wednesday?

- a) Karan > Ta<mark>hir</mark> > Arun > R</mark>am
- b) Karan > Tah<mark>ir ></mark> Ram > Arun
- c) Tahir > Karan > Ram > Arun
- d) Karan > Arun = Tahir > Ram
- e) None of these

#### Answer: Correct Option: B

From the common explanation, we have

Ram on Tuesday was in S-3, so Karan on Wednesday goes to S-3, while Karan on Tuesday was in S-2 so Ram on Wednesday goes to S-2. Similarly, Tahir and Arun on Wednesday goes to S-5 and S-1 respectively.



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Other things like time and number of trips for Wednesday is same as Tuesday. So we write all the information as follows –

	Tuesday	Wednesday	Length	Trips	Time	Speed
Ram	S-3	S-2	300m	4	12min	300 × 4/12 = 100m/min
Karan	S-2	S-3	500m	6	12min	500 × 6/12 = 250m/min
Tahir	S-1	S-5	600m	5	15min	600 × 5/15 = 200m/min
Arun	S-5	S-1	400m	4	18min	400 × 4/18 = 88.8m/min

Order of name by speed,

Karan > Tahir > Ram > Arun

Hence, option <mark>B</mark> is correct.

Q. For a week, Ram's younger brother also joins. He goes with Karan on tuesday, with Ram on thursday, and with Tahir on friday. He is more energetic so makes one more trip for each two trips the person running with him makes. Time taken by both the people is equal. Means if Ram's brother goes with Tahir and Tahir run for T minutes then Ram's brother also run for T minutes. Choose the option which gives his average speed (approx.)for three the days.

- a) 211 meter/minute
- b) 320 meter/minute
- c) 361 meter/minute
- d) 232 meter/minute
- e) None of these

#### Answer: Correct Option: A

From the common explanation, we have

Karan on Tuesday make 6 trip in 12 minutes in S-2 park which has a length of 300 meters. So Ram's brother will also go in same park. Karan make 6 = 2 + 2 + 2 trips, so Ram's brother make one more for each 2 of Karan. Thus Ram's brother will make 3 + 3 + 3 = 9



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trips.

Total distance he ran in  $S-2 = 300 \times 9$  meter

Time he took = 12min

Ram on Thursday in S-4 park in 16 minutes makes 8 trips = 2 + 2 + 2 + 2, his brother will make 3 + 3 + 3 = 12 trips.

Total distance he ran in S-4 =  $250 \times 12$  meter

Tahir on Friday in S-5 park in 16 minutes makes 4 trips = 2 + 2, his brother will make 3 + 3 = 6 trips.

Total distance he ran in S-5 = 600 × 6 meter

Total distance his brother ran =  $300 \times 9 + 250 \times 12 + 600 \times 6 = 9300$  meter

Total time he took = 12 + 16 + 16 = 44 minutes

average speed =  $\frac{9300}{44}$  = 211.4 m/min

Hence, option A is correct.

SET: 3 Directions: Study the table carefully and answer the questions.

Total number of students = 32500

The students are studying in various universities and within each university percentage of boys and girls is given.

Universities	Percentage of students	Percentage of boys	Percentage of girls
А	12	55	45
В	15	60	40
С	8	30	70
D	28	75	25
E	17	20	80
F	20	64	36

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Q. What is the ratio of total number of boys in University B and D together to the total number of girls in the same universities together?

A. 25 : 19
B. 35 : 21
C. 20 : 7
D. 30 : 13
E. 5 : 3
Correct Answers D. 30 : 13
Total number of Boys in D = $\frac{15}{100} \times 32500 \times \frac{60}{100} = 2925$ Total number of Boys in D = $\frac{28}{100} \times 32500 \times \frac{75}{100} = 6825$
Total number of girls in D Total number of girls in D Total number of girls in D $= \frac{15}{100} \times 32500 \times \frac{40}{100} = 1950$ $= \frac{28}{100} \times 32500 \times \frac{25}{100} = 2275$
Reg. Ratio = $(2925+6825)$ ; $(1950+2275)$
=9750:4225
=30 :13

Q. The total number of students in the University A is what per cent of the total number of students in University F?

A. 55%

B. 67%

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Q. What is the ratio of the number of boys in the University C to the number of boys in the University D?

- A. 9 : 39
- B. 3 : 8
- C. 17 : 35
- D. 13 : 32
- E. 4 : 35

```
Correct Answers E. 4 : 35
= \frac{8 \times 30}{28 \times 75} = 4 : 35Ratio
```

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**SET: 4 Directions: Study the two graphs carefully and answer the questions.** Percentage distribution of apartment constructed by different Real Estate Companies in Delhi.

Number of total flats = 8000



Q. What is the respective ratio between the number of 2 BHK flats in C group and number of 3 BHK flats in B group?

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- D. 83
- E. None of these

**Correct Answers A. 80** 

$$=\frac{810-450}{450}\times100=80\%$$

Required percentage

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Q. What is approximate average number of 2 BHK flats in D and E group?
A. 680
B. 682
C. 640
D. 620
E. 673
Correct Answers E. 673
Average $=\frac{750+597.33}{2}\approx 673$
Q. The number of 2 BHK flats in F group is approximately what percent of the number of 3 BHK flats in C group?

A. 75
B. 76
C. 77
D. 78
E. None of these
Correct Answers B. 76
$=\frac{480}{620} \times 100 = 76.2\% \approx 76\%$

Required %

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Q. What is the difference between the number of 2 BHK flats in D group and number of 3 BHK flats in B group?

A. 80
B. 75
C. 88
D. 85
E. None of these
Correct Answers B. 75

Difference = 825 - 750 = 75

SET 5 Direction Study the following pie chart and table to answer the following questions:



	Below 40 years (Male : Female)	Above 40 years (Male : Female)
Α	9:11	4:5
В	9:1	3:7
С	7:8	8:7
D	7:8	7:9
E	4:1	5:7
F	7:3	1:9

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- Q. If the total number of people in department B below the age 40 and years and above 40 years is 1320, find the total number of people in the company altogether?
  - A) 6600
  - B) 6700
  - C) 5400
  - D) 6200
  - E) 5800

#### Answer Option A

#### Solution:

20/100 \* total people in company = 1320 So total people in company= 6600

- Q. If the total number of people in department C is 160, then what is the number of female employees above 40 years in department D?
  - A) 144
  - B) 146
  - C) 125
  - D) 135
  - E) 122

#### Answer Option D

#### Solution:

10/100 \* total people in company = 160 So total people in company = 1600 So female employees above 40 years in department D = 9/16 \* 15/100 \* 1600 = 135

- Q. If the total number of employee in department D is 375 and total number of males above 40 years of age and females below 40 years of age is 122 in department F, then what is the number of males below 40 years in department F?
  - A) 258
  - B) 266



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C) 243 D) 252 E) 247

#### Answer Option D

#### Solution:

15/100 \* total people in company = 375 So total people in company= 2500 And total people in department F is  $20/100 \times 2500 = 500$ Let total number of employees in dept D below 40 years is x and above 40 years is y. Then  $1/10 \times y + 3/10 \times x = 122$  or 3x + y = 1220Also from above total people in department F is 500 so x + y = 500Solve the two equations, x = 360So number of males below 40 years in department F =  $7/10 \times 360 = 252$ 

- Q. If the number of female employees below 40 years and number of male employees above 40 years in department E are 40 and 75 respectively, then find the number of employees in company A.
  - A) 2160
  - B) 2090
  - C) 2450
  - D) 2370
  - E) 2280

#### Answer Option E

#### Solution:

1/5 \* employees below 40 years in E = 40 So employees below 40 years in E = 200 AND 5/12 \* employees below 40 years in E = 75 So employees above 40 years in E = 180 So total employees in E = 200+180 = 380 So 5/100 \* total employees in company = 380



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So total employees in company = 7600 So total employees in dept A = 30/100 \* 7600 = 2280

- Q. If the total number of employee in department A is 255 and total number of males below 40 years of age and females above 40 years of age is 131 in department B, then find the ratio of total number of employees in dept B below 40 years and total number of employees in dept B above 40 years?
  - A) 6 : 11 B) 3 : 8
  - C) 5 : 12
  - D) 10:17

#### E) 7 : 11

#### Answer Option A

#### Solution: 30/100 \* total people in company = 255So total people in company= 850 And total people in department B is 20/100 \* 850 = 170Let total number of employees in dept B below 40 years is x and above 40 years is y. Then 9/10 \* x + 7/10 \* y = 131 or 9x + 7y = 1310Also x + y = 170Solve the two equations, x = 60, y = 110So ratio = 60 : 110 = 6 : 11

SET 6 Directions (asked exact same type in Clerk Main 2016 exam)

The following table shows the MP, SP, Profit, Profit% and Discount% on 5 different products sold. Some values are missing in the table. Fill in the values and use it to answer the following questions:



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Products	MP	CP	Profit	Profit%	Discount%
Α		250		20	25
В	1100		22	10	
С	300	180	27		16
D		320	16		73
E	1100		27	10	
F	600	360			31

#### Q. What is the difference in the MPs of products E and C?

- A) Rs 780
- B) Rs 830
- C) Rs 800
- D) Rs 700
- E) Rs 920

#### Answer Option C

#### Solution:

MP of C = 300 For MP of E: 10/100 \* CP = 27 So CP = 270, then SP = 270 + 27 = Rs 297 So MP = 100/(100-73) \* 297 = Rs 1100 So difference = 1100 - 300 = Rs 800 Similarly find all values for questions

Products	MP	СР	Profit	Profit%	Discount%
Α	400	250	50	20	25
В	1100	220	22	10	78
С	300	180	27	15	31
D	400	320	16	5	16
E	1100	270	27	10	73

## Q. Find the difference in percentage points of discounts given for products E and discounts given for products B and C together. A) 49%

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B) 36%
C) 33%
D) 45%
E) 76%

#### Answer Option B

#### Solution:

Discount% for E = 73% Discount% for B: 10/100 \* CP = 22So CP = 220, then SP = 220 + 22 = 242 MP = 1100, so discount % = (1100-242)/1100 \* 100 = 78%Similarly discount % for C = 31% So required percentage points = (31+78) - 73 = 36%

#### Q. What is the total of MP of product D and SP of product B?

A) Rs 642
B) Rs 532
C) Rs 628
D) Rs 568
E) Rs 544

#### Answer Option A

**Solution:** For country D: 400 + 242 = Rs 642

- Q. If a person buys products A and E for their respective selling prices, then what is the resultant discount% given to him?
  - A) 50.70%
  - B) 60.20%
  - C) 48.06%
  - D) 67.62%
  - E) 54.50%



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#### Answer Option B

#### Solution:

Total MP of A and E = 400+1100 = Rs 1500 Total SP of A and E = 300+297 = Rs 597 So discount% = (1500-597)/1500 \* 100 = 60.2%

#### Q. Find the profit% given for product F.

- A) 16%
- B) 12%
- C) 18%
- D) 15%
- E) Cannot be determined

#### Answer Option D

#### Solution:

Use formula MP = (100+p%)/(100-d%) \* CP So 600/360 = (100+p%)/(100-31) Solve, p% = 15%

#### SET: 7 Direction: Refer to the graphs and answer the following questions.

The first bar graph shows the marked up price of articles with respect to their cost price and the second bar graph shows the discount % given in respective articles.



Q. If the cost price of Q is decreased by 10% (other prices remaining same), then what is the different between the new profit% and original one?

A) 15%

B) 10%

C) 12%

D) 9%

E) Cannot be determined

Answer Option C

#### **Explanation:**

Using MP = (100+p%)/(100-d%) \* CP

For article Q:

180% of CP = (100+p%)/(100-40) \* CP

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CP gets cancelled out, so p% = 8%

Now new CP = 90% of CP

So using MP = (100+p%)/(100-d%) \* CP

180% of CP = (100+p%)/(100-40) \* 90% of CP

New p% = 20%

So difference = 20 - 8 = 12%

Q. Cost price of P is 10% more than the cost price of R. If selling price of R is Rs 320, find the selling price of P.

- A) Rs 548.5
- B) Rs 577.5

C) Rs 532.5

D) Rs 553.5

E) Cannot be determined

Answer Option B

#### Explanation:

Let CP of R = Rs x

For R:

Using MP = (100+p%)/(100-d%) \* CP

160% of CP = (100+p%)/(100-60) \* CP

p = -36, means there is a loss of 36%

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Now SP of R = Rs 320

So CP of R = 100/64 \* 320 = Rs 500

So CP of P = 110% of 500 = Rs 550

For P: using MP = (100+p%)/(100-d%) \* CP

150% of CP = (100+p%)/(100-30) \* CP

p = 5%

So SP of P = 105% of 550 = Rs 577.5

Q. If the cost price of Q and S is same, then selling price of S is how much % less than the selling price of Q?

A) 79%

B) 63%

C) 82%

D) 67%

E) Cannot be determined

Answer Option B

#### **Explanation**:

Let CP of Q = CP of S = Rs 100

p% of Q = 8% [from Question 1]

So SP of Q = 108% of 100 = Rs 108

For S: using MP = (100+p%)/(100-d%) \* CP

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p = -60%, so there is a loss of 60%

So SP of S = 40% of 100 = Rs 40

Now SP of Q = Rs 108 and SP of S = Rs 40

Required % = (108-40)/108 \* 100 = 63%

#### Q. If the selling price of T is increased by 20%, then what would be the discount%?

- A) 50%
- B) 58%
- C) 45%
- D) 40%
- E) 52%

Answer Option D

#### Explanation:

For T:

using MP = (100+p%)/(100-d%) \* CP

150% of CP = (100+p%)/(100-50) \* CP

p = -25, so loss of 25%

Let CP = Rs 100, so SP = Rs 75

Now SP is increased by 20%, so new SP = 120% of 75 = Rs 90

and MP = 150% of 100 = Rs 150

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So discount % = (150-90)/150 \* 100 = 40%

Q. If the marked price of S is increased by 10% (keeping other prices same) which is same as the cost price of T, then what is the cost price of S given that selling price of T is Rs 660?

- A) Rs 400
- B) Rs 500
- C) Rs 440
- D) Rs 550
- E) Rs 360

Answer Option A

Explanation:

For S:

Let CP of S = Rs x

So MP = 200% of x = Rs 2x

Increased MP = 110% of  $2x = Rs \frac{22x}{10}$ 

For T:

So CP of T = Rs 22x/10

and from above question, loss is 25%

So SP of T = 75% of 22x/10

So 75% of 22x/10 = 660, solving x = Rs 400

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# **80**

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SET 8: Direction: The following table shows the statistics of 5 players. Answer the questions based on information given.

	Number of	Number of	Shot	Goals/Match
Name	goals scored	minutes played	<b>Coversion rate</b>	ratio
Α	20	2234	25%	0.25
В	18	2563	24%	0.35
С	19	2434	23.75%	0.45
D	16	1926	32%	0.4
E	17	2017	20%	0.55

Strike rate = Number of minutes played Number of goals scored

The lower the strike rate, the better it is considered

Number of shots =  $\frac{\text{Number of goals scored}}{\text{Shot coversion rate}}$ 

#### Q. What is the difference in the number of matches played by A and D?

A) 55	
B) 47	
C) 50	
D) 40	
E) 44	
Answer Option D	
Explanation:	
Played by A = 20/0.25	= 80
Played by A = 20/0.25 Played by D = 16/0.40	= 80 = 40

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Q. If all players A, B, C, D, and E are associated with different teams P,Q, R, S, T respectively, then which of the following team won the series?

A) P	
B) R	
C) T	
D) S	
E) Cannot be determined	

#### Answer Option E

#### **Explanation:**

The given goals are of individual players of the teams. How other players played is not given, so cannot be said by just seeing the goals of a single player of team.

#### Q. Which player has the best strike rate in terms of minutes?

- A) A B) B
- C) C
- D) D
- E) E

#### Answer Option A

#### **Explanation**:

A = 2234/20 = 111.7

B = 2563/18 = 142.4

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- C = 2434/19 = 128.1
- D = 1926/16 = 120.4
- E = 2017/17 = 118.6

The lower the strike rate, best it is considered

Q. If the difference in number of shots by two players is 25, then what is the difference in the strike rate of these?

- A) 23
- B) 24
- C) 22
- D) 21
- E) Cannot be Determined

#### Answer Option C

#### Explanation:

Number of shots of

- A = 20/0.25 = 80
- B = 18/0.24 = 75
- C = 19/0.2375 = 80
- D = 16/0.32 = 50
- E = 17/0.20 = 85

So these two players are B and D

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Difference in their strike rates =2563/18 - 1926/16 = 142.4 - 120.4 = 22

Q. If there are 24 matches left to be played, than what should be the goals/match ratio of B for the rest of games if he wants to overtake A in terms of number of goals scored?

- A) 0.275
- B) 0.395
- C) 0.225
- D) 0.375
- E) 0.345

Answer Option D

#### Explanation:

At current rate, A will score = 24\*0.25 = 6 goals more in 24 matches, so A's goals will be 20+6 = 26

So B to overtake A needs 27 total goals thus needs these 9 more goals (18+9 = 27) in 24 matches

So goal : match = 9 : 24 = 0.375